

Looking back at the third volume of the *Journal of Dynamic Decision Making*

Andreas Fischer, Daniel V. Holt, and Joachim Funke

Department of Psychology, Heidelberg University

We are proud to announce the completion of volume 2017, which comprises a range of interesting findings about dynamic decision making (DDM). As the editors of the *Journal of Dynamic Decision Making* we consider DDM a multi-faceted phenomenon (see Fischer, Holt, and Funke, 2015; 2016) and we are pleased to see a variety of different methods and perspectives on DDM that is apparent in the papers published in 2017.

Emphasizing the value of self-descriptive methods, Wendt (2017) proposes to use live streaming as a valuable data source for research on DDM. Engelhart, Funke, and Sager (2017) elaborate on the empirical effect of different kinds of feedback on performance in DDM. Sharma and Dutt (2017) compare the performance and generalization of various cognitive models in the sampling paradigm of DDM. Frank and Kluge (2017) elaborate on the effects of general mental ability and memory on temporal transfer of work-related DDM skills. Vangsness and Young (2017) present two experiments on effects of task difficulty and experienced losses on the probability of applying risk defusing operators in a videogame environment.

The broad and multi-faceted approach to investigating decision making and problem solving promoted by JDDM is also reflected in a recent Research Topic in the journal *Frontiers* (edited by W. Schoppek, J. Funke, M. Osman, and A. Kluge¹). While specifically addressing complex problem solving, which is conceptually related to DDM (see Fischer, Greiff, & Funke, 2012), the Research Topic covers many questions also relevant for cognitive research in DDM. In particular, Dörner and Funke (2017) discuss the central question of validity: What is complex problem solving and what is it not? They propose that instead of concentrating attention on psychometric issues such as reliable assessment instruments we should refocus on the content validity of complex problem solving. Dörner and Funke draw attention to psychological phenomena like the emergency reaction of the cognitive system, the role of context and background knowledge (as demonstrated by cross-cultural differences), the potential for failures, or the context dependency of strategies. Similarly, Funke, Fischer, and Holt (2017) argue that “solving multiple simple problems is not complex problem solving” and that “complex problem solving is, first and foremost, a complex cognitive process, which involves a range of skills, abilities and knowledge” (Funke, et al., 2017, p. 8). Processes of this kind – complex problem solving as well as dynamic decision making – require a wide range of tools and perspectives in order to be investigated adequately. We look forward to seeing such a broad scientific approach and corresponding discourse unfold in future volumes of JDDM.

Reviewers and guest editors for JDDM in 2017

We want to thank all our reviewers and guest editors, who did a great job in fostering the quality of submissions:

- Armin Fuegenschuh (BTU Cottbus, Germany),
- Joachim Funke (Heidelberg University, Germany),
- Dominik C. Güß (University of North Florida, USA),
- Daniel V. Holt (Heidelberg University, Germany),
- Oswald Huber (Fribourg University, Switzerland),
- Benjamin Scheibehenne (University of Geneva, Switzerland),
- Wolfgang Schoppek (Bamberg University, Germany),
- Anna-Lena Schubert (Heidelberg University, Germany).

Finally, we would like to encourage researchers working in the field of DDM to contribute their work to our journal. There are many reasons to choose the *Journal of Dynamic Decision Making* (JDDM) as your outlet, such as the short time between submission, peer review, and final publication; currently (and hopefully in the future) no article processing fees; free availability of your articles for researchers world-wide; easy citation and direct access to articles with Digital Object Identifiers (DOIs); and high visibility of published articles through listing in the Directory of Open Access Journals (DOAJ) and Google Scholar. Moreover, Heidelberg University Library as the host of JDDM has sustainably operated for more than 625 years. We are therefore confident that articles published in JDDM will remain freely accessible for decades (if not centuries) to come!

Declaration of conflicting interests: The authors declare they have no conflict of interests.

Author contributions: All authors contributed equally to the manuscript.

Handling editor: Andreas Fischer

Copyright: This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

¹ <https://www.frontiersin.org/research-topics/5058/complex-problem-solving-beyond-the-psychometric-approach>

Citation: Fischer, A., Holt, D. V., & Funke, J. (2017). Looking back at the third volume of the Journal of Dynamic Decision Making. *Journal of Dynamic Decision Making*, 3, 6. doi:10.11588/jddm.2017.1.43868

Published: 31 Dec 2017

References

- Dörner, D., & Funke, J. (2017). Complex problem solving: What it is and what it is not. *Frontiers in Psychology*, 8, 1153. doi:10.3389/fpsyg.2017.01153
- Engelhart, M., Funke, J., & Sager, S. (2017). A web-based feedback study on optimization-based training and analysis of human decision making. *Journal of Dynamic Decision Making*, 3, 2. doi:10.11588/jddm.2017.1.34608
- Fischer, A., Greiff, S., & Funke, J. (2012). The process of solving complex problems. *Journal of Problem Solving*, 4, 19-42.
- Fischer, A., Holt, D. V., & Funke, J. (2015). Promoting the growing field of dynamic decision making. *Journal of Dynamic Decision Making*, 1, 1. doi:10.11588/jddm.2015.1.23807
- Fischer, A., Holt, D. V., & Funke, J. (2016). The first year of the Journal of Dynamic Decision Making. *Journal of Dynamic Decision Making*, 2, 1. doi:10.11588/jddm.2016.1.28995
- Frank, B. & Kluge, A. (2017). The effects of general mental ability and memory on adaptive transfer in work settings. *Journal of Dynamic Decision Making*, 3, 4. doi:10.11588/jddm.2017.1.40004
- Funke, J., Fischer, A., & Holt, D. V. (2017). When less is less: Solving multiple simple problems is not complex problem solving - A comment on Greiff et al. (2015). *Journal of Intelligence*, 5, 5. doi:10.3390/jintelligence5010005
- Sharma, N., & Dutt, V. (2017). Modeling decisions from experience: How models with a set of parameters for aggregate choices explain individual choices. *Journal of Dynamic Decision Making*, 3, 3. doi:10.11588/jddm.2017.1.37687
- Vangsnæs, L. & Young, M. E. (2017). The role of difficulty in dynamic risk mitigation decisions. *Journal of Dynamic Decision Making*, 3, 5. doi:10.11588/jddm.2017.1.41543
- Wendt, A. N. (2017). The empirical potential of Live Streaming beyond cognitive psychology. *Journal of Dynamic Decision Making*, 3, 1. doi:10.11588/jddm.2017.1.33724